Performance Data Sheet

AWF5530EXG

General Information

Model	AWF5530EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	8000	6810					
	Watts	1140	1200					
	Amps	2.21	2.33					
	Lb/h	103	91.4					
-10	Btu/h	9880	8640	7420				
	Watts	1240	1310	1350				
	Amps	2.32	2.43	2.51				
	Lb/h	127	115	103				
-5	Btu/h	11900	10600	9300	8070			
	Watts	1340	1410	1470	1500			
	Amps	2.43	2.54	2.62	2.66			
	Lb/h	152	140	128	117			
0	Btu/h	14100	12700	11300	9970	8720		
	Watts	1430	1510	1580	1630	1650		
	Amps	2.52	2.64	2.72	2.78	2.80		
	Lb/h	178	167	155	143	131		
5	Btu/h	16400	15000	13500	12000	10600		
	Watts	1510	1610	1690	1750	1780		
	Amps	2.61	2.73	2.83	2.89	2.93		
	Lb/h	207	195	183	170	158		
10	Btu/h	19000	17400	15800	14200	12700	11300	10000
	Watts	1590	1700	1790	1870	1920	1950	1950
	Amps	2.69	2.82	2.92	3.00	3.06	3.09	3.10
	Lb/h	237	226	213	200	187	174	163
15	Btu/h	21700	20000	18300	16600	14900	13300	11900
	Watts	1650	1780	1890	1980	2050	2100	2130
	Amps	2.76	2.90	3.02	3.11	3.18	3.24	3.27
	Lb/h	270	258	245	232	218	204	191
20	Btu/h	24700	22900	21000	19100	17300	15500	13900
	Watts	1710	1850	1980	2090	2180	2250	2300
	Amps	2.82	2.97	3.10	3.22	3.31	3.39	3.45
	Lb/h	305	293	280	266	251	236	222

25	Btu/h	27900	26000	23900	21900	19900	17900	16100
	Watts	1750	1910	2060	2190	2300	2390	2460
	Amps	2.87	3.04	3.18	3.32	3.43	3.53	3.62
	Lb/h	342	330	317	302	287	271	256
30	Btu/h	31400	29300	27100	24900	22700	20500	18500
	Watts	1790	1960	2130	2280	2410	2530	2630
	Amps	2.90	3.09	3.25	3.41	3.55	3.68	3.80
	Lb/h	382	370	356	341	325	308	291
35	Btu/h	35200	32900	30500	28100	25700	23300	21000
	Watts	1800	2000	2180	2360	2520	2660	2780
	Amps	2.92	3.12	3.31	3.49	3.66	3.82	3.98
	Lb/h	426	413	399	383	366	348	330
40	Btu/h	39200	36800	34200	31600	29000	26400	23900
	Watts	1810	2020	2230	2430	2610	2780	2930
	Amps	2.93	3.15	3.36	3.57	3.77	3.96	4.15
	Lb/h	472	459	444	428	409	390	371
45	Btu/h	43600	41000	38200	35400	32500	29700	26900
	Watts	1790	2030	2260	2480	2690	2890	3070
	Amps	2.91	3.16	3.40	3.64	3.87	4.10	4.33
	Lb/h	522	509	493	476	457	436	416
50	Btu/h	48400	45500	42500	39500	36400	33300	30200
	Watts	1760	2020	2280	2520	2760	2990	3200
	Amps	2.88	3.16	3.43	3.70	3.96	4.23	4.50
	Lb/h	576	562	546	527	507	486	463
55	Btu/h	53400	50400	47200	43900	40500	37200	33800
	Watts	1710	1990	2270	2550	2820	3070	3320
	Amps	2.83	3.14	3.44	3.74	4.05	4.35	4.66
	Lb/h	633	619	602	582	561	538	515

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.017618E+04	3.553011E+02	3.600070E-01	1.909124E+02
C2	4.901298E+02	1.060649E+01	3.172068E-02	3.937233E+00
C3	2.955237E+01	1.457158E+01	4.221444E-02	1.299367E+00
C4	5.474756E+00	-3.385968E-01	-5.397035E-04	4.369247E-02
C5	5.639177E-01	-3.133148E-02	-3.787981E-04	3.600730E-02
C6	-1.882147E+00	1.937588E-02	-2.044341E-04	-2.459774E-02
C7	2.432637E-02	-1.763347E-03	-1.449937E-06	2.686924E-04
C8	-2.522603E-02	2.652114E-03	4.752564E-06	-9.950937E-05
C9	-1.303541E-02	1.451229E-03	2.708954E-06	-2.079478E-04
C10	7.003457E-03	-4.262845E-04	1.863173E-07	8.000998E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWF5530EXG

General Information

Model	AWF5530EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	380V 3~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	6630	5640					
	Watts	933	981					
	Amps	2.16	2.27					
	Lb/h	85.5	75.7					
-10	Btu/h	8190	7160	6150				
	Watts	1010	1070	1100				
	Amps	2.27	2.37	2.45				
	Lb/h	105	95.4	85.6				
-5	Btu/h	9860	8780	7710	6680			
	Watts	1090	1150	1200	1220			
	Amps	2.37	2.48	2.55	2.60			
	Lb/h	126	116	106	96.6			
0	Btu/h	11700	10500	9370	8260	7220		
	Watts	1160	1230	1290	1320	1340		
	Amps	2.46	2.57	2.66	2.71	2.74		
	Lb/h	148	138	128	118	108		
5	Btu/h	13600	12400	11200	9950	8810		
	Watts	1230	1310	1370	1420	1450		
	Amps	2.55	2.67	2.76	2.82	2.86		
	Lb/h	171	162	152	141	131		
10	Btu/h	15700	14400	13100	11800	10500	9340	8280
	Watts	1290	1380	1460	1520	1560	1590	1590
	Amps	2.63	2.75	2.85	2.93	2.98	3.02	3.03
	Lb/h	196	187	177	166	155	144	135
15	Btu/h	18000	16600	15200	13700	12300	11000	9830
	Watts	1350	1450	1530	1610	1670	1710	1730
	Amps	2.70	2.83	2.94	3.04	3.11	3.16	3.19
	Lb/h	223	214	203	192	180	169	159
20	Btu/h	20500	18900	17400	15900	14300	12900	11500
	Watts	1390	1500	1610	1690	1770	1830	1870
	Amps	2.75	2.90	3.03	3.14	3.23	3.30	3.36
	Lb/h	252	243	232	220	208	196	184

25	Btu/h	23100	21500	19800	18100	16500	14800	13300
	Watts	1430	1550	1670	1780	1870	1940	2000
	Amps	2.80	2.96	3.11	3.23	3.35	3.45	3.54
	Lb/h	283	273	262	250	237	224	212
30	Btu/h	26000	24300	22500	20600	18800	17000	15300
	Watts	1450	1590	1730	1850	1960	2060	2140
	Amps	2.83	3.01	3.17	3.33	3.46	3.59	3.71
	Lb/h	317	307	295	282	269	255	241
35	Btu/h	29100	27300	25300	23300	21300	19300	17400
	Watts	1470	1630	1770	1910	2040	2160	2260
	Amps	2.85	3.05	3.23	3.41	3.57	3.73	3.88
	Lb/h	353	342	330	317	303	288	273
40	Btu/h	32500	30500	28400	26200	24000	21900	19800
	Watts	1470	1640	1810	1970	2120	2260	2380
	Amps	2.85	3.07	3.28	3.48	3.68	3.87	4.05
	Lb/h	391	381	368	354	339	323	307
45	Btu/h	36100	34000	31700	29300	27000	24600	22300
	Watts	1460	1650	1840	2020	2190	2350	2500
	Amps	2.84	3.08	3.32	3.55	3.78	4.00	4.22
	Lb/h	432	422	409	394	378	361	344
50	Btu/h	40100	37700	35200	32700	30100	27600	25000
	Watts	1430	1640	1850	2050	2250	2430	2600
	Amps	2.81	3.08	3.34	3.61	3.87	4.13	4.39
	Lb/h	477	466	452	437	420	402	384
55	Btu/h	44300	41700	39100	36300	33600	30800	28000
	Watts	1390	1620	1850	2080	2290	2500	2700
	Amps	2.76	3.06	3.35	3.65	3.95	4.25	4.55
	Lb/h	524	513	499	482	465	446	426

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.673908E+04	3.294834E+02	3.512299E-01	1.585769E+02
C2	4.056849E+02	8.349959E+00	3.094700E-02	3.256545E+00
C3	2.375640E+01	1.123723E+01	4.118482E-02	1.064486E+00
C4	4.534680E+00	-2.854177E-01	-5.265400E-04	3.619011E-02
C5	4.724303E-01	-1.632602E-02	-3.695591E-04	2.991129E-02
C6	-1.552827E+00	1.610577E-02	-1.994479E-04	-2.027404E-02
C7	2.015560E-02	-1.419122E-03	-1.414573E-06	2.226581E-04
C8	-2.089851E-02	2.284578E-03	4.636648E-06	-8.249002E-05
C9	-1.082135E-02	1.099793E-03	2.642882E-06	-1.726358E-04
C10	5.784064E-03	-3.292084E-04	1.817729E-07	6.599722E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature